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## 1<sup>st</sup> CIRP Global Web Conference: Interdisciplinary Research in Production Engineering

### Preface

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### Preface

The 1st Global Web Conference on Interdisciplinary Research in Production Engineering (CIRPE2012) is organized by the International Academy for Production Engineering (CIRP). It is the first conference of its kind as it is fully internet based. This virtual conference strengthens the objective of CIRP. It gives an insight into the World of Research in Advanced Manufacturing Technology. The goal is to bring scientists, researchers and engineers together from all over the world in a very accessible way and to establish a platform to discuss the latest achievements in Production Engineering research. Internet technology is ready to support such a platform.

This new type of conference is an initiative of the CIRP Research Affiliates: outstanding, elected young researchers in the field of Production Engineering. One of our objectives is to create, develop and promote a sustainable Production Engineering network. The virtualisation of conferences enables young motivated researchers globally to participate, publish their work and strengthen their network. Although it cannot replace offline meetings, this online conference gives an excellent opportunity for communication.

The theme of this conference is Interdisciplinary Research in Production Engineering. During the sessions of the conference the following topics are addressed:

- Interdisciplinary strategies and sustainable production
- Multi-scale aspects and simulation in manufacturing technology
- Non-traditional, hybrid and additive processes

This Procedia CIRP encompasses 22 original, peer-reviewed scientific contributions, which are all presented orally during the web conference programme.

We thank CIRP, the CIRP Sponsors and the members of the Scientific Committee for their support and enthusiasm in setting-up this new type of conference. We hope to see all of you attending online and have a great web conference with good scientific discussions and meet a lot of new people!



Wessel Wits



Juan Jauregui-Becker



Hans-Christian Möhring